

LGSO

Key Scintillator Materials for Novel Radiation Detectors

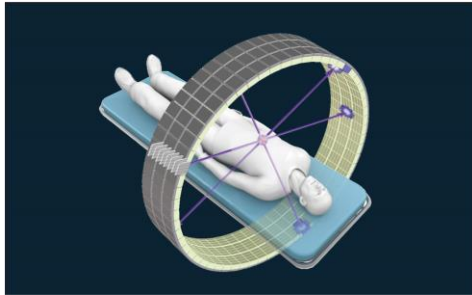
Features

- ✓ High Density and High Stopping Power
- ✓ Large Light Output and Superior Energy Resolution
- ✓ Short Decay Time
- ✓ No hygroscopicity

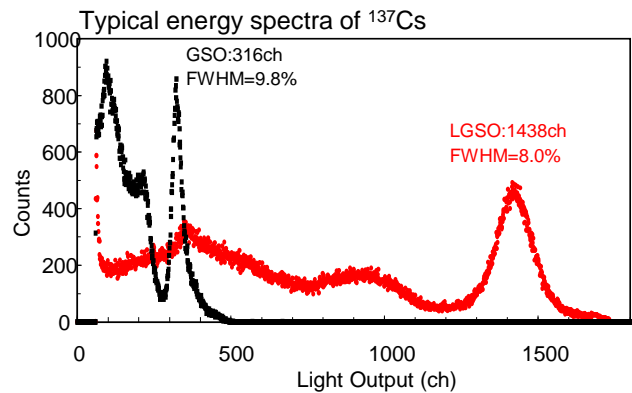


Applications

Positron Emission Tomography



Property



Comparison of Typical Scintillators

| | LGSO | LSO | BGO | NaI:Tl |
|-------------------------------------|---------|-------|------|--------|
| Light output (NaI=100) | ~90 | ~90 | 12 | 100 |
| Decay time (ns) | 40~42 | 40~42 | 300 | 230 |
| Peak wavelength λ_{em} (nm) | 410 | 410 | 480 | 415 |
| Density (g/cm ³) | 7.3~7.4 | 7.4 | 7.13 | 3.67 |
| Effective atomic number Z_{eff} | 63 | 63 | 77 | 50 |
| Hygroscopicity | No | No | No | Yes |
| Self-radiation | Yes | Yes | No | No |

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